

Claims

1. ~~A cordless digital audio headphone comprising:~~

a pair of earphones connected to a headband,
said earphones providing audible signals;

a memory slot positioned on said headband for
receiving a memory card containing digitally
stored audio information;

a processor disposed on said headband, said
processor coupled to said memory slot for
retrieving said digitally stored audio
information from said memory card; and

analog to digital converter for receiving said
digitally stored audio information, said
converter providing said audible signal to said
earphones.

2. The invention according to claim 1, wherein said
headband contains a plurality of said memory slots for
receiving a corresponding memory card, said processor
programmably retrieving said digitally stored audio
information from said memory cards.

3. The invention according to claim 2, wherein said memory cards contain information corresponding to musical albums.

5 4. The invention according to claim 3, further comprising control buttons coupled to said microprocessor for selecting a memory slot from which audio information is to be retrieved and for controlling the volume of audio signal being provided by said earphones.

10 5. The invention according to claim 4, further comprising a display screen controlled by said processor for displaying information corresponding to the operation of said headphone including,

15 an indication of a memory slot from which digitally stored audio data is being retrieved, and

20 an indication of the title of album contained in the memory card inserted in said memory slot.

6. A cordless digital audio headphone comprising:

25 a headband for resting said headphone over a user's head;

a microprocessor disposed on said headband for controlling the operation of said headphone, said microprocessor coupled to an address bus and a data bus;

a plurality of memory slots disposed on said headband each coupled to said address bus and said data bus, said memory slots receiving memory cards containing digitally stored audio information; and

a pair of output devices each including,

a digital to analog converter coupled to said address bus and said data bus for receiving said digitally stored audio information,

an audio amplifier for receiving analog signal provided by said digital to analog converter, and providing an amplified signal corresponding to said audio information,

an earphone for receiving said amplified audio signal and providing

audio signal.

5 7. The invention according to claim 6, wherein said
memory cards contain information corresponding to musical
albums.

10 8. The invention according to claim 7 further
comprising control buttons coupled to said address bus and
said data bus for selecting a memory slot from which audio
information is to be retrieved and for controlling the volume
of audio signal being provided by said earphones.

15 9. The invention according to claim 8, further
comprising a display screen coupled to said address bus and
said data bus for displaying information corresponding to the
operation of said headphone including,

20 an indication of a memory slot from which
digitally stored audio data is being retrieved,
and

25 an indication of the title of album contained in
the memory card inserted in said memory slot.

10. The invention according to claim 9 wherein said digitally stored audio information is in a form of encoded, compressed data.

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11. The invention according to claim 10, wherein said headphone further comprises a decoder coupled to said address bus and said data bus for decoding said compressed data.

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12. The invention according to claim 11, wherein said decoder provides decompressed data to an audio processor, said audio processor being coupled to said data bus and said address bus for providing binaural sound to said earphones.

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